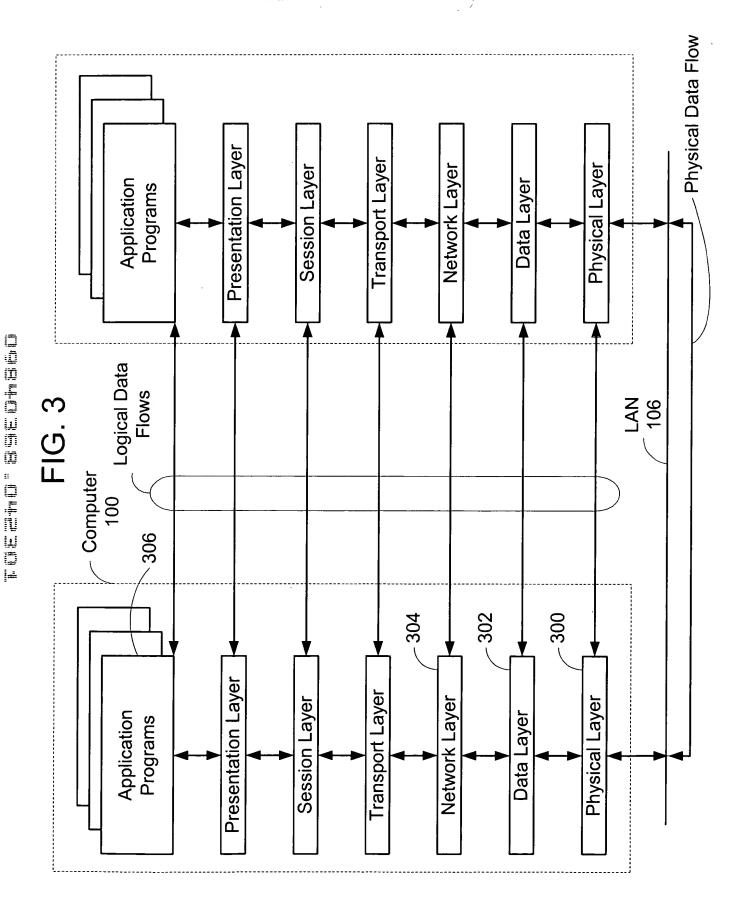
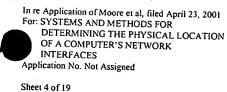
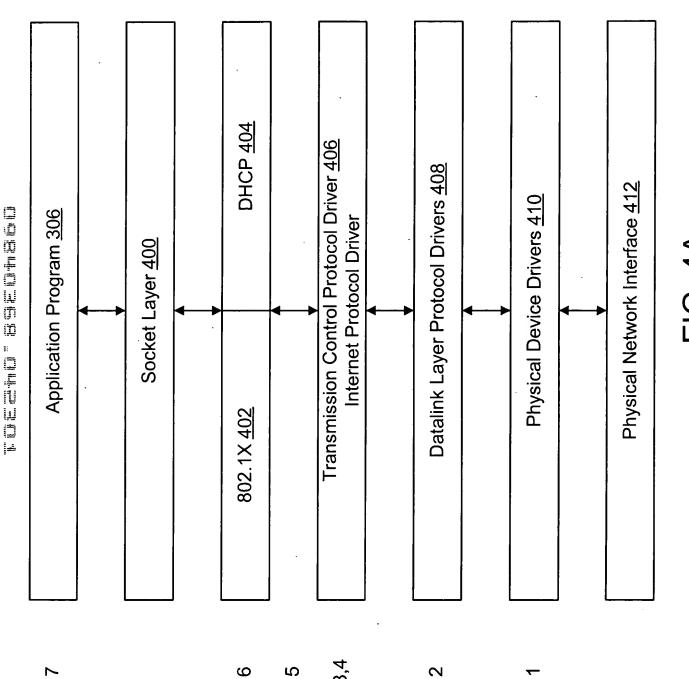


FIG. 2

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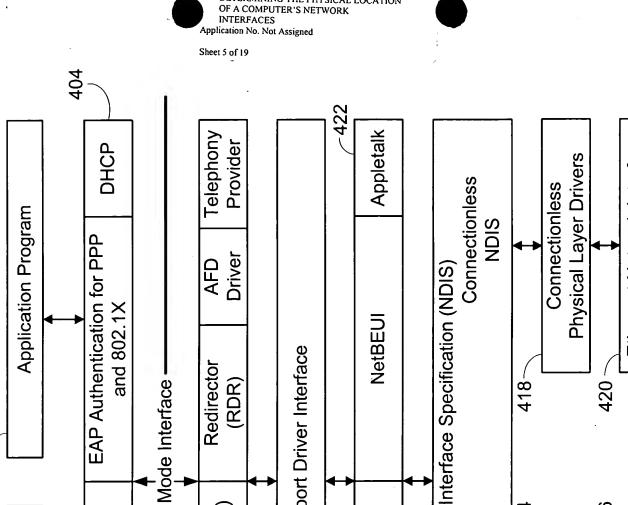


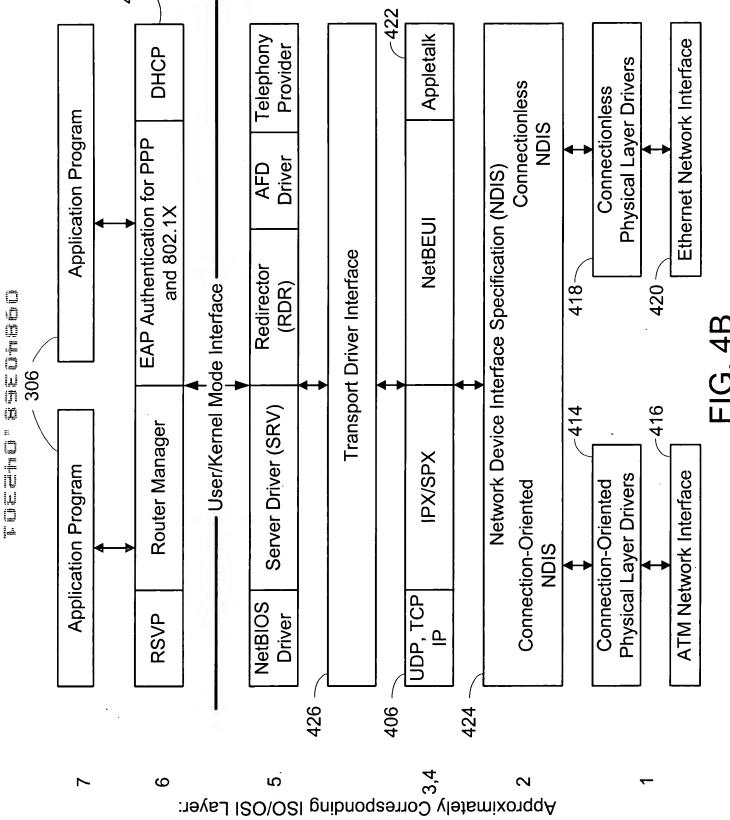




Approximately Corresponding ISO/OSI Layer:

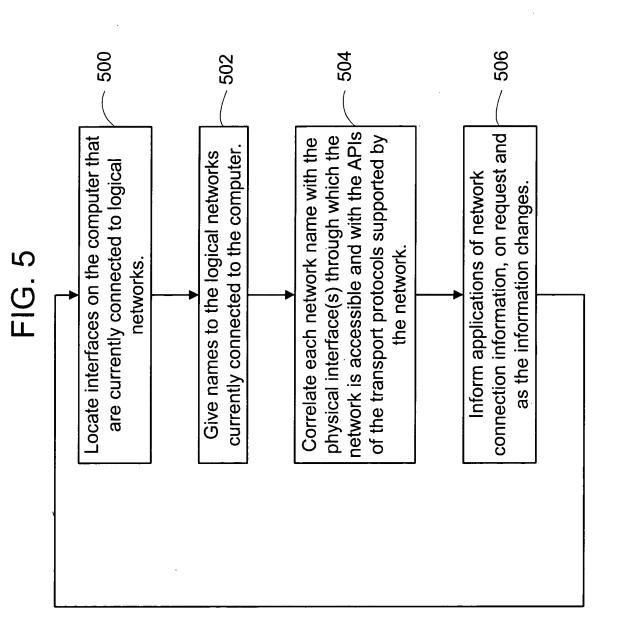
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OF A COMPUTER'S NETWORK
INTERFACES
Application No. Not Assigned





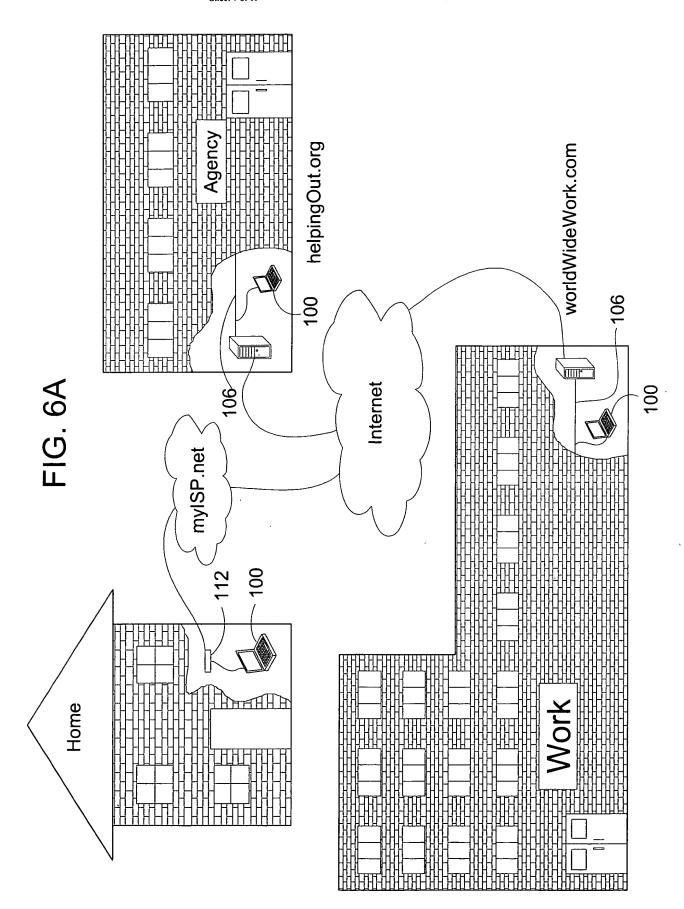
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**INTERFACES** Application No. Not Assigned Sheet 8 of 19 Configuration Configuration Professional Configuration Application Personal 612 interface identifier 604 interface speed 608 interface type 606 FIG. 6B name 602 602 604 606 608 602 604 606 608 Information Returned worldWideWork.com -**GUID** of modem card GUID of LAN card by NLRSP **GUID of LAN card** helpingOut.org -LAN A 100 Mbps A myISP.net 10 Mbps ► | dial-up 56 kbps-A N -009 -009 -009 Volunteer Agency

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Application No. Not Assigned Sheet 9 of 19 GUID of modem card PPP worldWideWork.com FIG. 7B FIG. 7A interface identifier 604 name 602 myISP.net Information Returned 100 **GUID** of modem card by NLRSP myISP.net ▲ Home

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900

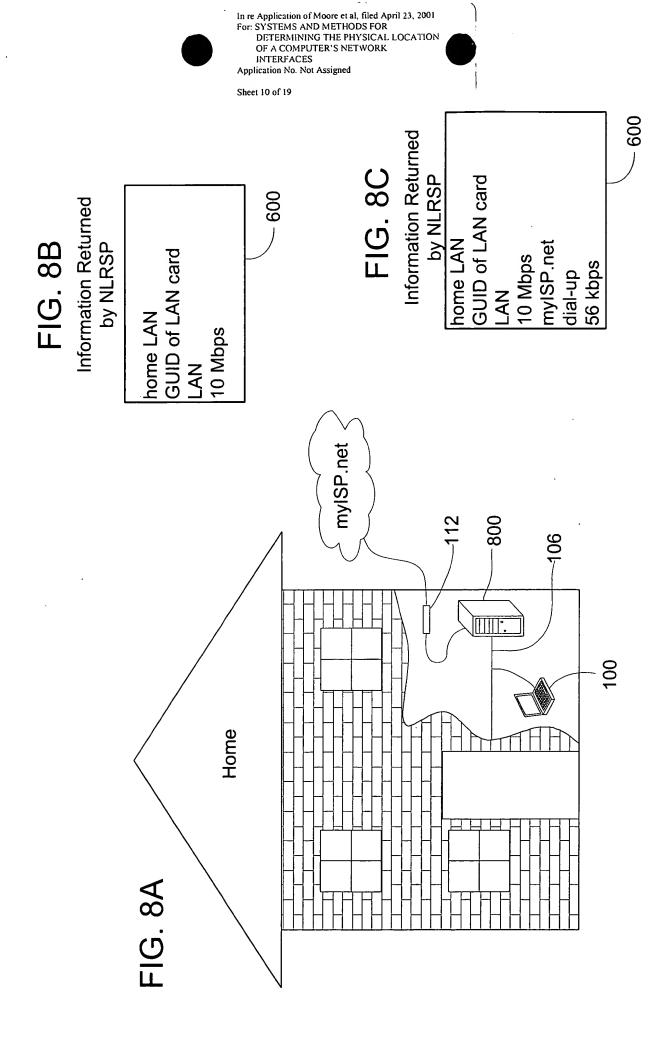
56 kbps

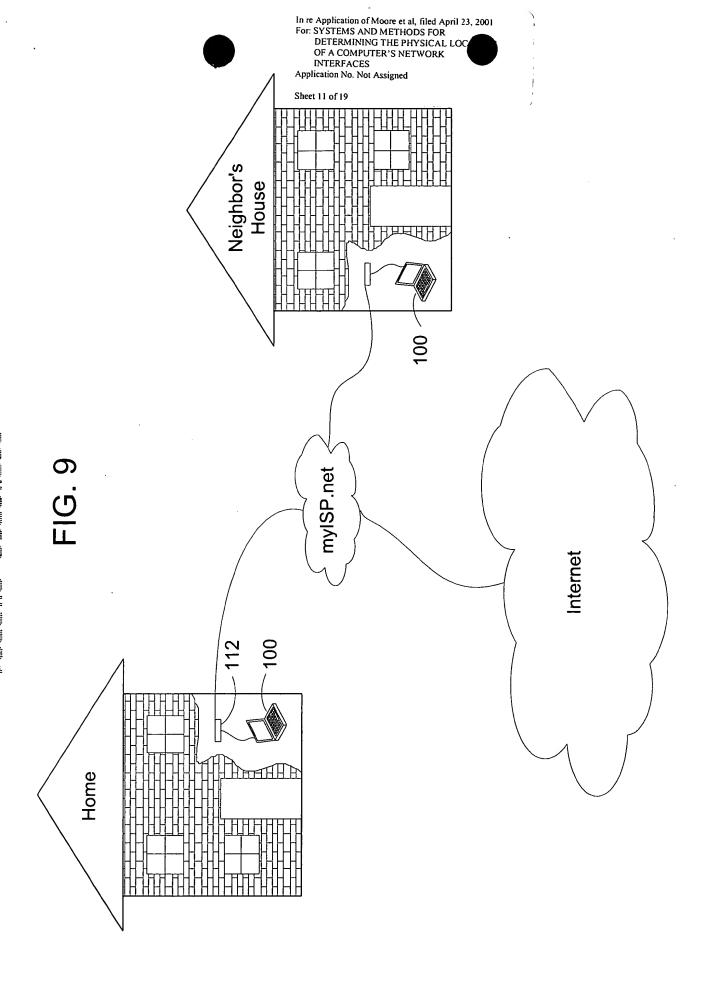
interface type 606 interface speed 608

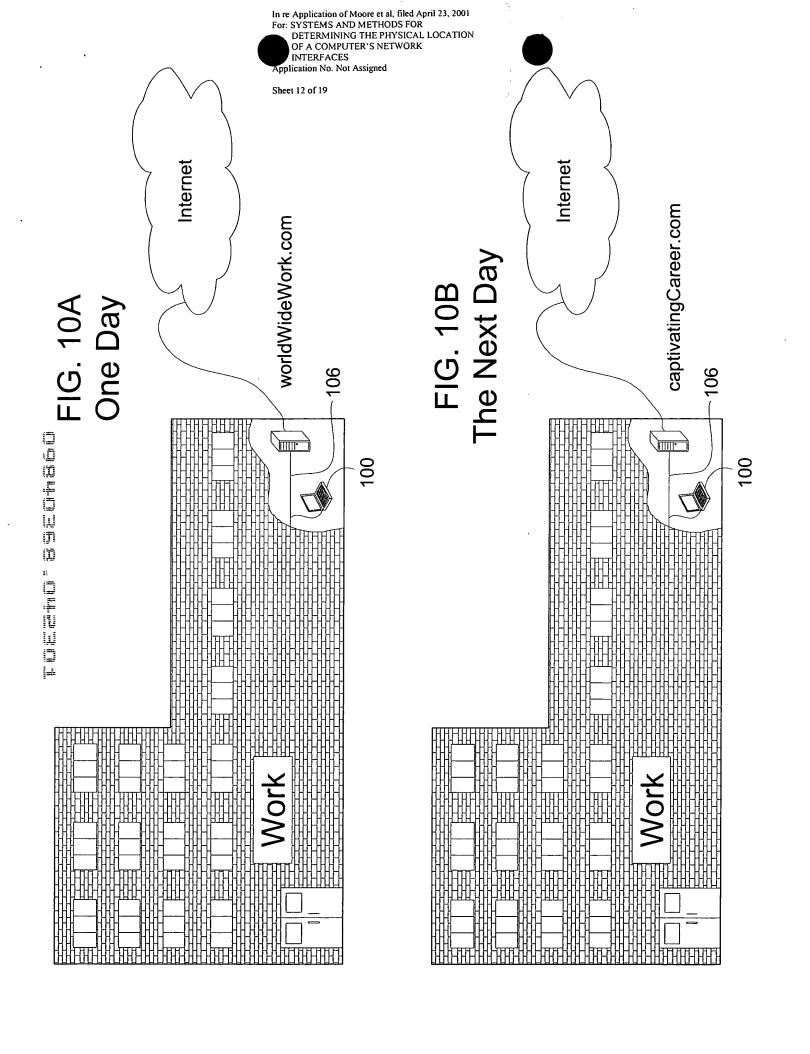
dial-up ▲

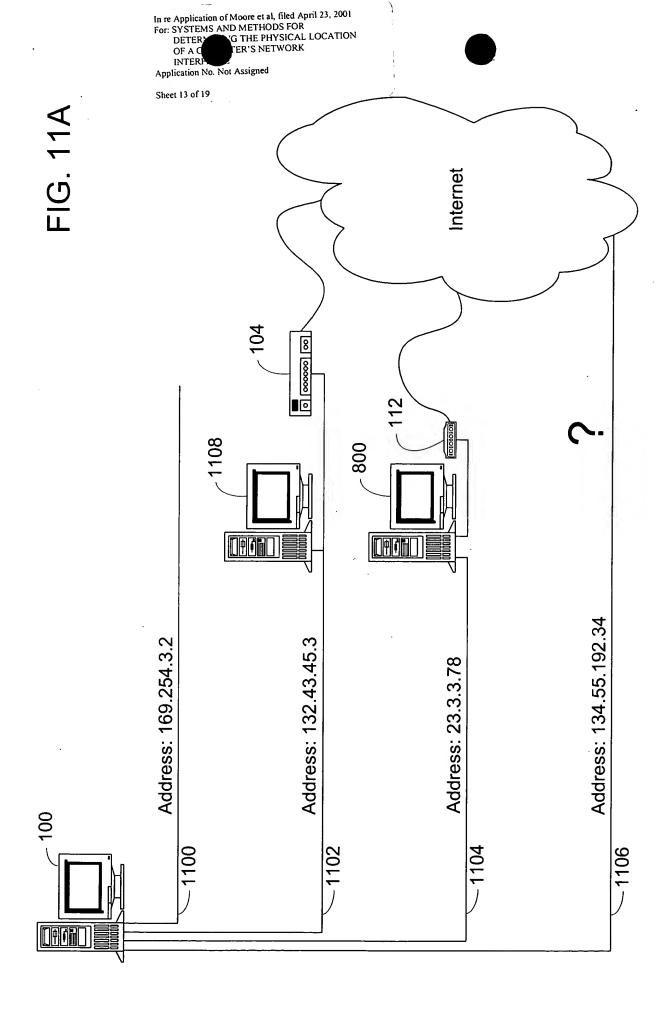
900

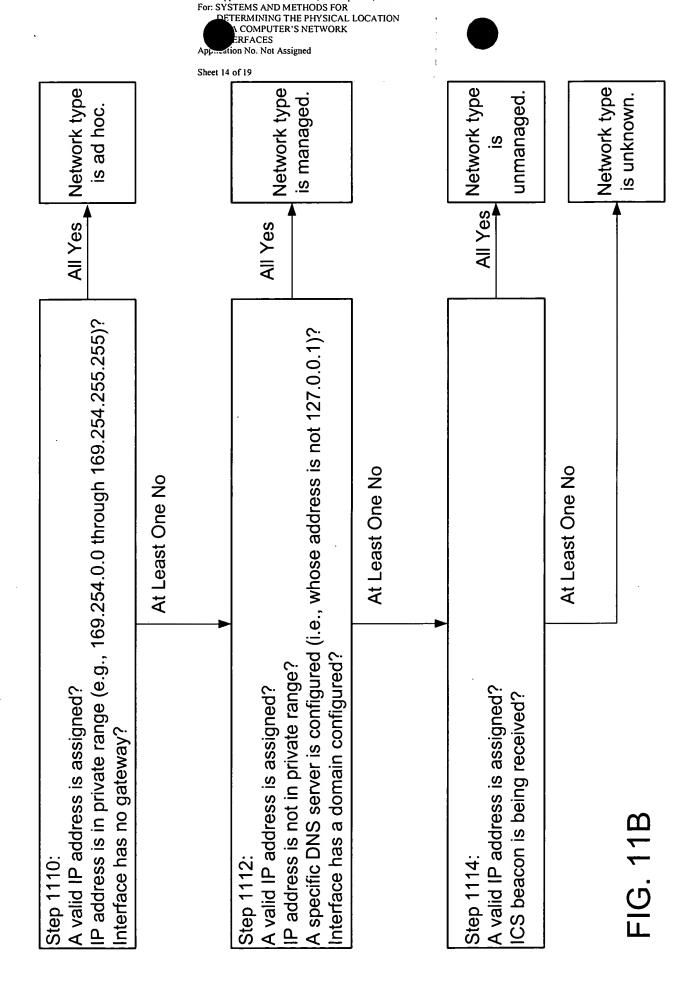
TERFACES











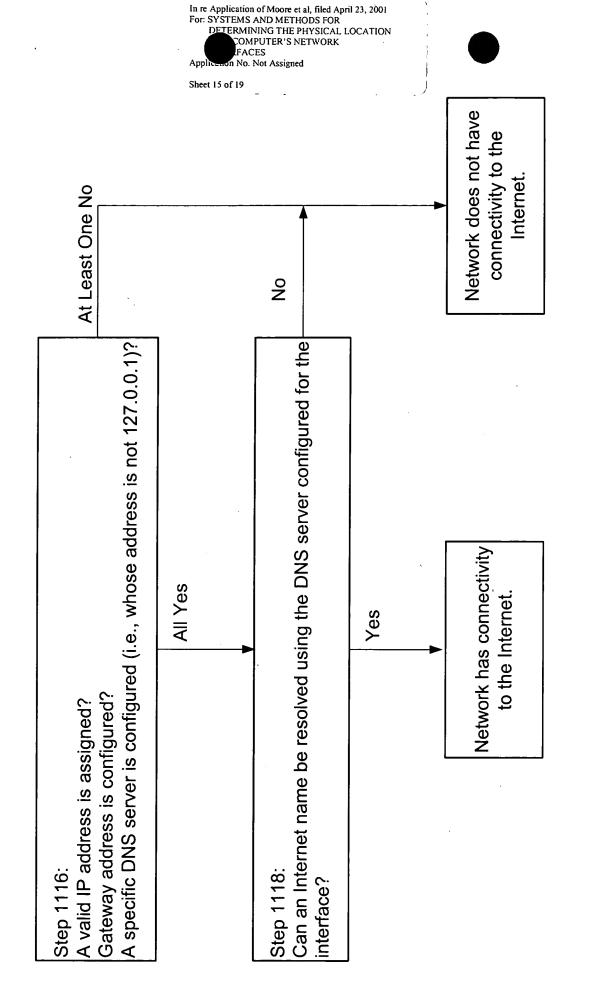


FIG. 110

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Network	Network Connectivity Type	Internet Connectivity Available?
1100	Ad Hoc	No
1102	Managed	Yes
1104	Unmanaged	Yes
1106	Unknown	Yes

FIG. 11D

Application No. Not Assigned Sheet 17 of 19 Minroon work latitude and longitude GUID of modem card worldWideWork.com DNS via RFC 1876 Work 1200 +/- 0.5 mile 56 kbps ррр Figure 12B Figure 12A physical location 1202 interface identifier 604 location method 1204 110 interface speed 608 interface type 606 error range 1206 name 602 myISP.net home latitude and longitude Information Returned user-entered ZIP code **GUID** of modem card by NLRSP Home myISP.net +/- 5 miles 56 kbps |dial-up

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}

## On system startup:

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Create a list of live network interfaces.

CATION

For each live network interface:

Refer to a table that lists the physical location methods applicable to this type of network interface.

For each applicable method:

Run the method and collect whatever information it generates.

Convert the collected information to a standard format.

Store the collected information, along with an indication of the method used to collect this information, in a record associated with this network interface.

Figure 13B

When asked for physical location information about a network interface:

Report the information previously collected on this interface. If information was collected from multiple methods, sort the results in order of increasing error range, if known.

Record what information was reported to whom.

## Figure 13C

When an application specifies how information should be reported to it:

Record the information fields in which the application is interested.

Record the threshold value specified for each information field.

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Figure 13D

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When an event occurs on a network interface:

If the network event could change or supplement stored information:

Discard previously collected physical location information.

Refer to a table that lists the physical location methods applicable to this type of network interface.

For each applicable method:

Run the method and collect whatever information it generates.

Convert the collected information to a standard format.

Store the collected information, along with an indication of the method used to collect this information, in a record associated with this network interface.

Check the records of what information has been reported to whom.

If reported information has changed or was supplemented, and if the application is interested in being informed of changes in the reported information, and if the change is of a magnitude greater than the threshold set by the application, then:

Report the changed or supplemented information to the application.

Record what information was reported to whom.

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